**SURVEY TOOL- CASE STUDIES**

**Part 0: GENERAL INFORMATION**

|  |  |  |
| --- | --- | --- |
|  | **Name or Description** | **Code** |
| **Name of farmer:** |  |  |
| **Type of farmer** |  | 1. Host Farmer 2. Baby farmer 3. (Control |
| **Country:** |  |  |
| **District:** |  | 1. Balaka 2. Dedza 3. Ntcheu 4. Zomba |
| **EPA:** |  | 1. Balaka 2. Golomoti 3. Kandeu 4. Linthipe 5. Songani |
| **Village:** |  |  |
| **Latitude (North)** |  |  |
| **Longitude (East)** |  |  |

**PART 1: HOUSEHOLD COMPOSITION AND CHARACTERISTICS** (Household members =Persons who live together and eat together from the same pot (share food), including wokers, students/pupils and spouse living and working in another location but excluding visitors)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID CODE | Name of household member  [Start with respondent] | Sex  1 = M  0 = F | Relation to HH  **CODE A** | Age (years) | Marital status?  **CODE B** | Education (years)  **CODE 3C** | Primary occupation (based on days per months spent)  **CODE D** | How many months in the past 12 months was [NAME] present in the household? | Labor contribution to farms cultivated by household in 2014/2015  **CODE 5** |
| **A1** | **A2** | **A3** | **A4** | **A5** | **A6** | **A7** | **A8** | **A9** |
| 1 |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |
| **Code A**   1. Household head 2. Spouse 3. Son/daughter 4. Son/daughter-in-law 5. Grandson/granddaughter 6. Mother/Father 7. Brother/sister Nephew/niece 8. Cousin 9. Brother/sister-in-law 10. Mother/father-in-law 11. Maid/hired worker | | **Code B**   1. Married living with spouse 2. Married living without spouse 3. Single/never married 4. Divorced/separated 5. Widowed | | **Code C**   1. None/Illiterate 2. Adult education   \*Give other education in years | | | **Code D**   1. Agriculture self employed 2. Agriculture wage labour 3. Non-agricultural self-employment 4. Non-agricultural wage labour 5. Salaried worker 6. Domestic work 7. Student 8. Unemployed 9. Retired 10. Too young (<5 years) 11. Other, (specify)…… | | **Code E**  1. Full time  2. Part time  3. Not a worker |

**Part 2: Livestock production & ownership** (Quantity sold or bought in the last 12 months)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Livestock/products | Quantity owned/ produced | **Selling** | | | **Buying** | | |
|  | | |  | | |
| Quantity sold | Who sold  **Codes A:** | Unit price **($/unit)** | Quantity bought | Who Bought  **Codes A:** | Unit price **($/unit)** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| 1. Cattle |  |  |  |  |  |  |  |
| 4. Sheep and Goats |  |  |  |  |  |  |  |
| 5. Donkeys |  |  |  |  |  |  |  |
| 6. Chicken |  |  |  |  |  |  |  |
| 7. Bee hives |  |  |  |  |  |  |  |
| 8. Pigs |  |  |  |  |  |  |  |
| 9. Pigeons |  |  |  |  |  |  |  |
| 10. Other |  |  |  |  |  |  |  |
| 11. Other...... |  |  |  |  |  |  |  |
| **Animal products** |  |  |  |  |  |  |  |
| 12. Milk (check sale if production recorded) |  |  |  |  |  |  |  |
| 13. Eggs |  |  |  |  |  |  |  |
| 14. Butter |  |  |  |  |  |  |  |
| 15. Meat |  |  |  |  |  |  |  |
| 16. Other........................... |  |  |  |  |  |  |  |

**Part 3: FARM ASSETS OWNERSHIP AND ACCESS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| D1.  Farm equipment/ machinery | D2. Do you own this equipment/ machinery  1 yes  0 no | D3. Who in the household owns this equipment?  1 head  2 spouse  3 both head and spouse  4 other household member | D4. Year of purchase | D5. Do you rent in any farm equipment/machinery  (Listed in D1)  1 yes  0 no | D6. Who rents this equipment/ machinery?  1 head  2 spouse  3 both head and spouse  4.other household member | D7. If No, reason for not renting the equipment  1 Too expensive to rent  2 Not available locally  3 land is too small to use it  4 Don't know this equipment |
| Ox-cart |  |  |  |  |  |  |
| Water pump/ tredible pump |  |  |  |  |  |  |
| Manual sprayer |  |  |  |  |  |  |
| Bicycles |  |  |  |  |  |  |
| hoes |  |  |  |  |  |  |
| Private water well |  |  |  |  |  |  |
| Radio |  |  |  |  |  |  |
| Wheel barrow |  |  |  |  |  |  |
| Peanut butter machine |  |  |  |  |  |  |
| Sewing Machine |  |  |  |  |  |  |
| Television |  |  |  |  |  |  |
| Panga |  |  |  |  |  |  |
| Other (specify) |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Other (specify) |  |  |  |  |  |  |

**Part 4: Other stakeholders working with this farmer**

|  |  |  |  |
| --- | --- | --- | --- |
| Other Stakeholders (government, researchers, NGOs etc.) working with farmer | Area of work/Project | Crop | Livestock |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. |  |  |  |
| 5. |  |  |  |
| 6. |  |  |  |

Section B: Land holding (hectares) during the 2019/20 cropping year-HERE SKETCH FIELDS

Size of farmland:……………….. Total land cultivated: ………………………

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| G1.  Code | G2.  Agricultural Enterprise | G3.  Own land used (hectares) (A) | G4.  Rented in/ BORROWED land (hectares) (B) | G5.  Rented out/borrowed out land hectares (C) | Total owned land (A+B+C) |
|  | Homestead |  |  |  |  |
|  | Maize |  |  |  |  |
|  | Legumes ( specify)  Groundnut |  |  |  |  |
|  | soyabean |  |  |  |  |
|  | Common bean |  |  |  |  |
|  | Pigeon Pea |  |  |  |  |
|  | Cowpea |  |  |  |  |
|  | Tobacco |  |  |  |  |
|  | Sweetpotatoes |  |  |  |  |
|  | Cassava |  |  |  |  |
|  | Livestock production -grazing areas |  |  |  |  |
|  | tomatoes, |  |  |  |  |
|  | Onions |  |  |  |  |
|  | cabbages |  |  |  |  |
|  | Other cereal crops |  |  |  |  |
|  | Fodder Crops |  |  |  |  |

**Part 5: Crop Management data**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Plot 1 | Plot 2 | Plot 3 | Plot 4 | Plot 5 | Plot 6 | Plot 7 | Plot 8 | Plot 9 | Plot 10 | Remarks |
| Crop/s name |  |  |  |  |  |  |  |  |  |  | Indicate crop name eg soyabean, maize |
| Plot size |  |  |  |  |  |  |  |  |  |  |  |
| Soil type |  |  |  |  |  |  |  |  |  |  |  |
| Variety |  |  |  |  |  |  |  |  |  |  | **Codes**  **Provided on separate sheet for the crops** |
| Cropping System |  |  |  |  |  |  |  |  |  |  | 1. sole continuous 2. Rotation 3. Intercrop 4. Doubled up legume 5. Alley cropping |
| Row spacing (cm) |  |  |  |  |  |  |  |  |  |  |  |
| Plant (station) spacing (cm) |  |  |  |  |  |  |  |  |  |  |  |
| Plant population |  |  |  |  |  |  |  |  |  |  |  |
| Tillage system |  |  |  |  |  |  |  |  |  |  | 1. Conventional ridge & furrow 2. manual no-tillage 3. Basins |
| Residues applied (yes /no)? |  |  |  |  |  |  |  |  |  |  |  |
| Type of residues used |  |  |  |  |  |  |  |  |  |  | 1. Crop residue 2. Thatching grass 3. Green manure cover crop |
| Seeding Date |  |  |  |  |  |  |  |  |  |  | Very important |
| Manure application |  |  |  |  |  |  |  |  |  |  | 1 = yes  0 = no |
| Manure type |  |  |  |  |  |  |  |  |  |  |  |
| NPK applied (Y/N) |  |  |  |  |  |  |  |  |  |  |  |
| NPK applied per plot (kg/ha) |  |  |  |  |  |  |  |  |  |  |  |
| NPK Date of application |  |  |  |  |  |  |  |  |  |  |  |
| UREA |  |  |  |  |  |  |  |  |  |  |  |
| UREA applied per plot (kg/ha) |  |  |  |  |  |  |  |  |  |  |  |
| Date of first weeding |  |  |  |  |  |  |  |  |  |  |  |
| Date of second weeding |  |  |  |  |  |  |  |  |  |  |  |
| Date of third weeding |  |  |  |  |  |  |  |  |  |  |  |
| Date of fresh produce harvest |  |  |  |  |  |  |  |  |  |  |  |
| Frequency of fresh produce harvest |  |  |  |  |  |  |  |  |  |  |  |

**Adoption & Adaptation of SI technologies**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| K3.  Code | K4.  Name of Sustainable intensification Technology/ Management Practices (MPs) | K5.  Have you been exposed to/ aware of this technology or known Management Practices (MPs)  1 yes  0 no | K6.  What was your main source of information about the management practices  ………  **CODE A** | K8.  Did you ever try this Management practice  1 yes  0 no | K9.  If yes, Year first used | K10.  Who made the decision to adopt the technology  1 head  2 spouse  3 other household member | K11.  **Rank** 3 most important reason for adopting the technology  **Code B** | K12.  How many seasons did you apply this Management practice | K13.  If aware and never used it, what is the main reason for not using?  **CODE C** | If stopped using it, what was the main reason for stopping its usage  Code C |
|  | Drought tolerant crop varieties |  |  |  |  |  |  |  |  |  |
|  | Maize Legume Intercropping |  |  |  |  |  |  |  |  |  |
|  | Crop Rotation |  |  |  |  |  |  |  |  |  |
|  | Residue Retention |  |  |  |  |  |  |  |  |  |
|  | Herbicide Use In Zero Tillage |  |  |  |  |  |  |  |  |  |
|  | Zero/Minimum Tillage |  |  |  |  |  |  |  |  |  |
|  | Mulching/ Crop Residue |  |  |  |  |  |  |  |  |  |
|  | Fertilizer management/micro-dosing |  |  |  |  |  |  |  |  |  |
|  | Doubled up legume |  |  |  |  |  |  |  |  |  |
|  | Improved common bean varieties  Nua 45 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |  |  |  |

**Part 6: Labour data Record Sheet for each plot (Note: Use one Sheet per plot/treatment and season)**

**Plot Number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ crop \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity** | **Family labour (2019/2020 season)** | | | | | | | | | | | | | | | **Other labor (Hired & Exchanged ) (2019/2020 season)** | | | | | | | | | | |
| **Men** | | | | | **Women** | | | | | **Children[[1]](#footnote-1)** | | | | | **Men** | | | | | **Women** | | | | | |
| **#** | **#hrs worked/day** | | **#days worked** | **cost/**  **day[[2]](#footnote-2)** | **#** | **#hrs worked/day** | | **#days** | **cost/**  **day** | **#** | **#hrs worked/ day** | **#days** | **cost/**  **day** | | **#** | **#hrs worked/day** | | **#days** | **Cost/**  **Day** | **#** | **#hrs worked/day** | | **#days** | | **cost/day** |
| Land Clearing |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Land Preparation Ploughing/ Basin making/ Ripping |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Planting |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Basal Dressing |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Mulching |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Herbicide Application |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Pesticide Application |  |  | |  |  |  |  | |  |  |  |  |  |  | |  |  | |  |  |  |  | |  | |  |
| Thinning and Gap filling |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Weeding 1 |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Weeding 2 |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Weeding 3 |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Top Dressing (Urea) |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Harvesting Maize (cutting & stocking) |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Harvesting a Legume |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Threshing/ Shelling/ Winnowing for maize |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Threshing/ Shelling/ Winnowing for maize |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Storing/packing |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Transportation included grain + stover/residue) |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |
| Other (specify) |  | |  |  |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  | |  |  |  | |

1. This refers to those whose age is between 6 and 16 years old. [↑](#footnote-ref-1)
2. If family labour please estimate the cost [↑](#footnote-ref-2)